

Title (en)  
Element for preventing unauthorised unscrewing

Title (de)  
Sicherungselement gegen unbefugtes Losschrauben

Title (fr)  
Élément de sécurisation contre le dévissage interdit

Publication  
**EP 2264344 A1 20101222 (DE)**

Application  
**EP 09162802 A 20090616**

Priority  
EP 09162802 A 20090616

Abstract (en)  
The element (26) has external housing comprising inner gear teeth that co-operate with outer gear teeth (28, 29) of a spring-loaded section (27). The element is clamped in a housing part and cooperatively equipped with the external housing. Membrane valves are provided in the housing part, and the outer gear teeth include a thread angle such that resistance against a screw of the housing parts is larger than a fixed screw.

Abstract (de)  
Es wird ein Sicherungselement (26) gegen Losdrehen mindestens zweier verschraubbare Gehäuseteile (3, 2) vorgeschlagen, wobei das Sicherungselement (26) in einem der Gehäuseteile (3) klemmend und zusammenwirkend mit dem anderen Gehäuseteil (2) angeordnet ist.

IPC 8 full level  
**F16K 27/02** (2006.01); **B65D 50/00** (2006.01); **F16B 39/06** (2006.01)

CPC (source: EP KR US)  
**B65D 50/00** (2013.01 - KR); **F16B 39/00** (2013.01 - KR); **F16B 39/06** (2013.01 - KR); **F16K 27/00** (2013.01 - KR);  
**F16K 27/0236** (2013.01 - EP US); **F16B 41/005** (2013.01 - EP US); **Y10T 137/5994** (2015.04 - EP US)

Citation (search report)

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- [Y] US 6173851 B1 20010116 - HAGUE BRIAN [US], et al
- [X] WO 2008154575 A1 20081218 - WEST PHARM SERV INC [US], et al
- [X] EP 1959202 A2 20080820 - FAR RUBINETTERIE S P A [IT]

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2264344 A1 20101222**; **EP 2264344 B1 20120808**; BR PI1015178 A2 20160419; CA 2761124 A1 20101223; CN 102483174 A 20120530; CN 102483174 B 20160803; JP 2012530228 A 20121129; JP 5854990 B2 20160209; KR 101672571 B1 20161116; KR 20120030095 A 20120327; MX 2011012849 A 20120329; SG 176109 A1 20111229; TW 201107617 A 20110301; TW I504817 B 20151021; US 2012087763 A1 20120412; US 8672599 B2 20140318; WO 2010145964 A1 20101223; ZA 201200247 B 20121128

DOCDB simple family (application)  
**EP 09162802 A 20090616**; BR PI1015178 A 20100608; CA 2761124 A 20100608; CN 201080027643 A 20100608; EP 2010057954 W 20100608; JP 2012515428 A 20100608; KR 20117030297 A 20100608; MX 2011012849 A 20100608; SG 2011084555 A 20100608; TW 99114798 A 20100510; US 201013378012 A 20100608; ZA 201200247 A 20120112